In the Claims:

1. (Original): A method for alerting the pilot of an aircraft to a potentially hazardous condition comprising the steps of:

estimating a deceleration required to stop the aircraft on a runway of intended landing;

comparing said deceleration to a maximum deceleration of the aircraft, and asserting an alert signal when said deceleration is greater than said maximum deceleration.

- 2. (Withdrawn): The method of claim 1 wherein said step of estimating deceleration further includes the step of including a gain factor in said deceleration to account for at least one of a plurality of runway surface conditions.
- 3. (Withdrawn): The method of claim 1 wherein said step of estimating deceleration further includes the step of including a gain factor in said deceleration to account for at least one atmospheric condition.
- 4. (Original): The method of claim 1 wherein said step of asserting an alert signal includes the step of commanding an autopilot go-around maneuver.
- 5. (Original): A method for alerting the pilot of an aircraft to a potential go-around condition comprising the steps of:

monitoring a plurality of parameters indicative of an unstabilized approach; assigning a risk of go-around value according to each of said parameters; and asserting an alert signal when said value exceeds a predetermined threshold amount.

- 6. (Withdrawn): The method of claim 5 wherein said step of monitoring a plurality of parameters includes the step of monitoring a change in a speed of the aircraft.
- 7. (Withdrawn): The method of claim 5 wherein said step of monitoring a plurality of parameters includes the step of monitoring a runway wind condition.

- 8. (Withdrawn): The method of claim 5 wherein said step of monitoring a plurality of parameters includes the step of monitoring a flight path angle of the aircraft.
- 9. (Original): The method of claim 5 wherein said step of monitoring a plurality of parameters includes the step of monitoring a position of the aircraft.
- 10. (Withdrawn): The method of claim 5 wherein said step of monitoring a plurality of parameters includes the step of monitoring a track of the aircraft.
- 11. (Original): The method of claim 5 wherein said step of asserting an alert signal comprises the step of commanding an autopilot go-around maneuver.
- 12. (Original): The method of claim 5 wherein said step of asserting an alert signal further comprises the steps of:

asserting a go-around caution alert signal when said value exceeds a first threshold amount and is less than a second threshold amount; and

asserting a go-around warning signal when said value exceeds said second threshold amount.

13. (Previously Presented): A method of alerting the pilot of an aircraft to a potential goaround condition comprising the steps of:

monitoring a plurality of parameters indicative of a runway landing length required; assigning a risk of runway overrun value based on said plurality of parameters; and asserting an alert signal when said risk value exceeds a predetermined threshold value, wherein the plurality of parameters include runway length.

- 14. (Original): The method of claim 13 wherein said step of monitoring a plurality of parameters includes the step of monitoring a deceleration required to stop the aircraft.
- 15. (Withdrawn): The method of claim 13 wherein said step of monitoring a plurality of parameters includes the step of monitoring a runway surface condition.
- 16. (Withdrawn): The method of claim 13 wherein said step of monitoring a plurality of parameters includes the step of monitoring at least one atmospheric condition.

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- 17. (Original): The method of claim 13 wherein said step of asserting an alert signal further comprises the steps of:
 - asserting a go-around caution alert signal when said value exceeds a first threshold amount and is less than a second threshold amount; and
 - asserting a go-around warning signal when said value exceeds said second threshold amount.
- 18. (Original): The method of claim 13 wherein said step of asserting an alert signal comprises the step of commanding an autopilot go-around maneuver.
- 19. (Original): A computer program product for alerting the pilot of an aircraft to a potentially hazardous condition comprising:
 - a computer readable storage medium having computer readable program code means embodied in said medium, said computer readable program code means having:
 - a first computer instruction means for estimating a deceleration required to stop the aircraft on a runway of intended landing;
 - a second computer instruction means for comparing said deceleration to a maximum deceleration of the aircraft; and
 - a third computer instruction means for asserting an alert signal when said deceleration is greater than said maximum deceleration.
- 20. (Original): The computer program product of claim 19 further including a fourth instruction means for asserting an autopilot go-around command when said alert signal is asserted.
- 21. (Original): A computer program product for alerting the pilot of an aircraft to a potential go-around condition comprising:
 - a computer readable storage medium having computer readable program code means embodied in said medium, said computer readable program code means having:

- a first computer instruction means for accessing and monitoring a plurality of parameters indicative of an unstabilized approach;
- a second computer instruction means for assigning a risk of go-around value according to each of said parameters; and
- a third computer instruction means for asserting an alert signal when said value exceeds a predetermined threshold amount.
- 22. (Original): The computer program product of claim 21 further comprising a fourth instruction means for asserting an autopilot go-around command when said alert signal is asserted.
- 23. (Previously Presented): A computer program product for alerting the pilot of an aircraft to a potential go around condition comprising:
 - a computer readable storage medium having computer readable program code means embodied in said medium, said computer readable program code means having:
 - a first computer instruction means for accessing and monitoring a plurality of parameters indicative of a runway landing length required;
 - a second computer instruction means for assigning a risk of runway overrun value based on said plurality of parameters; and
 - a third computer instruction means for asserting an alert signal when said risk value exceeds a predetermined threshold value,

wherein the plurality of parameters include runway length.

- 24. (Original): The computer program product of claim 23 further including a fourth computer instruction means for asserting an autopilot go-around command when said alert signal is asserted.
- 25. (Original): An apparatus for alerting the pilot of an aircraft to a potential go-around condition comprising:

an input coupled to receive a plurality of parameters useful as indicators of an unstabilized approach;

an output; and

a signal processing device, coupled to said input, and to said output for:
assigning a risk of go-around value according to each of said parameters; and
asserting an alert signal when said value exceeds a predetermined threshold amount.

- 26. (Original): The apparatus of claim 25 wherein said apparatus comprises an Enhanced Ground Proximity Warning computer.
- 27. (Original): The apparatus of claim 25 wherein said alert signal further includes signals useful for driving a display.
- 28. (Original): The apparatus of claim 25 wherein said alert signal further includes an aural alert signal.
- 29. (Withdrawn): The apparatus of claim 25 wherein said parameters include a change in a speed of the aircraft.
- 30. (Withdrawn): The apparatus of claim 25 wherein said parameters include a runway wind condition.
- 31. (Withdrawn): The apparatus of claim 25 wherein said parameters include a flight path angle of the aircraft.
- 32. (Original): The apparatus of claim 25 wherein said parameters include a position of the aircraft.
- 33. (Withdrawn): The apparatus of claim 25 wherein said parameters include a track of the aircraft.
- 34. (Original): The apparatus of claim 25 wherein said alert signal comprises an autopilot go-around maneuver command.
 - 35. (Withdrawn): The apparatus of claim 25 further including a database of runway data.

- 36. (Withdrawn): The apparatus of claim 25 wherein said parameters include runway data.
- 37. (Original): The apparatus of claim 25 wherein said parameters include terrain data.
- 38. (Previously Presented): An apparatus for alerting the pilot of an aircraft to a potential go-around condition comprising:

an input coupled to receive a plurality of parameters useful as indicative of a runway landing length required;

an output; and

a signal processing device, coupled to said input and to said output, for:

assigning a risk of runway overrun value based on said plurality of parameters; and

asserting an alert signal when said risk value exceeds a predetermined threshold value,

wherein the plurality of parameters include runway length.

- 39. (Original): The apparatus of claim 38 wherein said parameters include a deceleration required to stop the aircraft.
- 40. (Withdrawn): The apparatus of claim 38 wherein said parameters include a runway surface condition.
- 41. (Withdrawn): The apparatus of claim 38 wherein said parameters include at least one atmospheric condition.
- 42. (Original): The apparatus of claim 38 wherein said apparatus comprises an Enhanced Ground Proximity Warning computer.
- 43. (Original): The apparatus of claim 38 wherein said alert signal further includes signals useful for driving a display.
- 44. (Original): The apparatus of claim 38 wherein said alert signal further includes an aural alert signal.

- 45. (Original): The apparatus of claim 38 wherein said alert signal comprises an autopilot go-around maneuver command.
 - 46. (Withdrawn): The apparatus of claim 38 further including a database of runway data.
 - 47. (Withdrawn): The apparatus of claim 38 wherein said parameters include runway data.
 - 48. (Original): The apparatus of claim 38 wherein said parameters include terrain data.
- 49. (Original): An apparatus for alerting the pilot of an aircraft to a potentially hazardous condition comprising:

an input coupled to receive runway data and at least one aircraft performance data; an output; and

a signal processing device coupled to said input and to said output for:

estimating a deceleration required to stop the aircraft on a runway of intended landing;

comparing said deceleration to a maximum deceleration of the aircraft; and asserting an alert signal when said deceleration is greater than said maximum deceleration.

- 50. (Withdrawn): The apparatus of claim 49 wherein said runway data includes at least one runway surface condition.
- 51. (Withdrawn): The apparatus of claim 49 wherein said input is further coupled to receive at least one atmospheric condition.
- 52. (Withdrawn): The apparatus of claim 49 wherein said input is further coupled to receive a runway end point data.
- 53. (Original): The apparatus of claim 49 wherein said alert signal includes an autopilot goaround maneuver command.
- 54. (Original): The apparatus of claim 49 wherein said alert signal further includes signals useful for driving a display.

- 55. (Original): The apparatus of claim 49 wherein said alert signal further includes an aural alert signal.
 - 56. (Withdrawn): The apparatus of claim 49 further including a database of runway data.
- 57. (Original): The apparatus of claim 49 wherein said apparatus comprises an Enhanced Ground Proximity Warning computer.
- 58. (Withdrawn): The apparatus of claim 56 wherein said database further includes terrain data.
- 59. (Withdrawn): The apparatus of claim 46 wherein said database further includes terrain data.